

**In the specification**

**Please amend Page 14, lines 18-26, as follows:**

A.J. Nygren published in May 1997, in ~~http://web page~~ [www: Dot owl.net: Dot rice: Dot edu/~elec539/Projects97/cult/node8\\_dot.html](http://www.owl.net/~elec539/Projects97/cult/node8_dot.html) a method for an exact attenuation correction, using algebraic reconstruction. Nygren assumed that an attenuation profile of the object being imaged is known. The reconstruction problem is then formulated with pixel weights assigned by a projection operator, which depends on the distance between the pixel and the detector, and on the assumed attenuation profile. Unlike Chang's method, which involves averaging correction factors, this method allows an exact attenuation correction, using algebraic reconstruction methods.

**Please amend Page 15, lines 4-14, as follows:**

Additionally, M.P. Tornai, et al, published in ~~http://web page~~ [www-mfk: Dot hitachi-medical: Dot co- dot jp/mfk/medix/29\\_05\\_dot pdf](http://www-mfk.hitachi-medical.co.jp/mfk/medix/29_05_dot.pdf) "Investigation of Large Field-of View Transmission Imaging for Non-uniform-Attenuation Compensation in Cardiac SPECT. Part 1, Phantom Studies. Their results showed that the implementation of Transmission computed Topography (TCT) acquisition, combined with Non-Uniform Attenuation maps (NUA) compensation techniques, which utilized iterative reconstruction algorithms were promising, and yielded suitable compensated images.

In contrast to these, Chang's Attenuation Correction is a simple approach, described in ~~http://web page~~ [23ku: Dot net/~chibakakugi/kiso/chang: Dot html](http://23ku.net/~chibakakugi/kiso/chang_dot.html), The Society of Nuclear Medicine Technology in CHINA, which involves averaging correction factors, so as to use a single attenuation correction value for the tissue.

**Please amend Page 33, lines 6-16, as follows:**

Position-registering device 30 may be a navigation sensor, preferably, for registration of six coordinates x;y;z axes and rotational angles  $\rho$ ,  $\theta$  and  $\varphi$ . It may be, for example, a magnetic tracking and location system, as known, for example, miniBIRD®, commercially available from Ascension Technology Corporation, P.O. Box 527, Burlington, Vermont 05402 USA (~~http://web page~~ www:Dot ascension-tech:dot com/graphic:Dot htm).

Alternatively, position-registering device 30 may be a miniature global positioning system (GPS), as known, for example, a miniature GPS of Zarlink Semiconductor Inc., 400 March Road, Ottawa, Canada K2K 3H4, Phone: 613 592-0200, Fax: 613 591-2317, Email: corporate@\_at\_zarlink:Dot com, Web: www:Dot zarlink:Dot com.